

# Occupational Safety and Ergonomics MS Version 4/16/2026

1st Year Fall Semester	Course Number	Credit Hours
Environmental Health Seminar	ENV-7001	1
Practice in Occupational Exposure Assessment I	EIH-7041C	2
Identification of Potential Workplace Exposures	EIH-9004	2
Introduction to Epidemiology	BE-7076	3
Introduction to Biostatistics	BDS-7022	3
Principles of Occupational Exposure Assessment	EIH-7007	2
Professional Development in Occupational Hygiene I	EIH-8081	1
Principles of Ergonomics	OSE-7092C	2
<b>Total Credits</b>		<b>16</b>
1st Year Spring Semester	Course Number	Credit Hours
Environmental Health Seminar	ENV-7001	1
Evaluation of Workplace Exposures	EIH-7075	2
Practice of Occupational Exposure Assessment II	EIH-7042C	2
Occupational Health, Hygiene and Safety Workshop I	EIH-8019	2
Physical Aspects of the Environment	EIH-7090C	2
Professional Development in Occupational Hygiene II	EIH-8082	1
Ethics in Research	GNTD-7003	1
Introduction to Measurement Techniques in Ergonomics	OSE-7048	2
Elective (See list below for recommended options)		x
<b>Total Credits</b>		<b>13</b>
2nd Year Fall Semester	Course Number	Credit Hours
Biomechanical and Physiological Aspects of Muscular Activity	OSE-7044	2
Occupational Health, Hygiene and Safety Workshop II	EIH-8020	2
Occupational Safety Engineering	MECH-6050	3
Hazardous Materials Management	EIH-8034	2
Professional Development in Occupational Hygiene I	EIH-8081	1
Successful Scientific Writing	BE8076	2
Research	ENV-8091	x
Elective (See list below for recommended options)		x
<b>Total Credits</b>		<b>12</b>
2nd Year Spring Semester	Course Number	Credit Hours
Professional Development in Occupational Hygiene II	EIH-8082	1
System Safety Engineering	MECH-6052	3
Teaching Practicum in Environmental Health	EIH-7025	1
Masters Thesis Research (Minimum 1 required and must have Letter of Intent approved)	ENV-7091	1
Research	ENV-8091	x
Elective (See list below for recommended options)		3
<b>Total Credits</b>		<b>9</b>

**Total Program Credits**

**50**

List of Recommended Electives	Course Number	Credit Hours
Ventilation Safety & Health	EIH-8035	1
Human Biological Monitoring and Biological Markers	EIH-8043	2
Toxicological Modeling Biological Monitor Risk Applications	EIH-8045	2
Applied Risk Assessment	EIH-8078	2
Survey of Physiology	EIH-7084	1
Introduction to Nuclear Engineering and Health Physics	MECH-6003	2
Survey of Toxicology	TOX-7082	2
Racism as a Public Health Concern	PH-7003	3
Understanding Vulnerable Populations	PH-8062	3
Global and International Health Systems	PH-8070	3
Advanced Biostatistics	BE-7023	3
Data Analysis with R and SAS	BE-8083	3
Molecular Epidemiology	BE-9073	2
Interprofessional Field Experience in Occupational Health	ANCH-8056	1
Health Planning and Analysis	ANNA-8010	3

Students are encouraged to attend Departmental Seminars even if they do not register for ENV7001.

PhD students are encouraged to participate in teaching, even if they have already fulfilled EIH7025.